PATENT COOPERATION TREATY

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SCIENTIFIC-ATLANTA, INC.
LEGAL DEPARTMENT

From the			
INTERNATIONAL	PRELIMINARY	EXAMINING	AUTHORIT

NIEKNA	TIONAL PK	<u>ELIMINAKY EX</u>	AMINING AUTHORITY		LLLEGAL DEPARTIME
To: SHELLEY L. COUTURIER SCIENTIFC-ATLANTIC			PCT		
		ARKWAY (ATL	4.3.517)		ITTEN OPINION OF THE
LAWKE	NCEVILLE,	GA 30044			NATIONAL PRELIMINARY 10 1000
				EX	AMINING AUTHORITY
					(PCT Rule 66)
				Date of mailing (day/month/year)	28 OCT 2004
Applicar	it's or agent's	file reference		REPLY DUE	
F-7484-1	PC				within 2 months/days from the above date of mailing
	onal application	on No.	International filing date		Priority date (day/month/year)
PCT/HS	03/08597		19 March 2003 (19.03.2	003)	20 March 2002 (20.03.2002)
		lassification (IPC)	or both national classificat		20 Martin 2002 (20.03.2002)
IPC(7).	HOAN 7/16 ar	od US CL + 725/13	1, 134, 139, 142, 151, 37,	38: 3/8/ 563 56/	565 731
Applicar		Id 03 Ct 723/13	1, 134, 135, 142, 131, 37,	38, 348/ 303, 304,	303, 731
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2CIEN I	IFIC - ATLA	NIA, INC.			
1.	The w	ritten opinion esta	ablished by the Internationa	al Searching Authori	ty:
	\boxtimes	is	is not		
	consid	lered to be a writt	en opinion of the Internatio	onal Preliminary Exa	mining Authority.
2.			nion contains indications re		
2.	Box N	-	of the opinion	ciating to the tollowi	ng nems.
	Box N		•		
			*		
			•	th regard to novelly,	inventive step and industrial applicability
	Box N		of unity of invention		
	Box N		ned statement under Rule ability; citations and explar		gard to novelty, inventive step or industrial ich statement
	Box N	Io. VI Certai	n documents cited		
	Box N	Io. VII Certai	n defects in the internation	al application	
	Box N	lo. VIII Certai	n observations on the inter	national application	
3.	The applican	t is hereby invited	to reply to this opinion.		
	When?		it indicated above. The app it an extension, see Rule 66		the expiration of that time limit, request this
	How?		written reply, accompanied the language of the amenc		by amendments, according to Rule 66.3
	Also	For the examiner	's obligation to consider ar	mendments and/or at	guments, see Rule 66.4bis.
			communication with the ex opportunity to submit amo		
	If no reply i	s filed, the interna	itional preliminary examina	ation report will be e	stablished on the basis of this opinion.
4.			iternational preliminary repulsiy 2004 (20.07,2004)	port on patentability	(Chapter II of the PCT) must be established
Name an		ress of the IPEA/		Authorized -65	O BOOK OF THE PROPERTY OF THE
	Mail Stop PC	Γ, Attn: IPEA/US		Authorized office	
	Commissioner P.O. Box 145	0		Chris Grant	Menan
	Alexandria, V	irginia 22313-1450		Telephone No. (703) 305 3000

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International	application	No.

PCT/US03/08597

Bo	x No	. I Ba	sis of the opinion					
1.	1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
		This opinion is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:						
			international search (under Rules 12.3 and 23.1(b))					
			publication of the international application (under Rule 12.4)					
			international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	whice	h have be	ard to the elements of the international application, this opinion has been established on the basis of (replacement sheets ve been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as ly filed."):					
	\boxtimes	the inte	rnational application as originally filed/furnished					
	X	the desc	cription:					
	V3	pages 1	•					
		pages N	ONE received by this Authority on					
		pages N						
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		pages 50						
		pages N						
		pages N	ONE received by this Authority on					
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		pages N						
		pages N						
		a sequer	nce listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	\boxtimes	The amo	endments have resulted in the cancellation of:					
		\boxtimes	the description, pages NONE					
		N 7	the claims, Nos. NONE					
		S 2	the drawings, sheets/figs NONE					
		5 7	the sequence listing (specify): NONE					
			any table(s) related to the sequence listing (specify): NONE					
4.			nion has been established as if (some of) the amendments had not been made, since they have been considered to go he disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		[the description, pages					
			the claims, Nos					
			the drawings, sheets/figs					
		r	the sequence listing (specify):					
			any table(s) related to the sequence listing (specify):					

1. Statement

Novelty (N)	Please See Continuation Sheet Please See Continuation Sheet	YES NO
Inventive Step (IS)	Please See Continuation Sheet Please See Continuation Sheet	YES NO
Industrial Applicability (IA)	Please See Continuation Sheet Please See Continuation Sheet	_YES NO

2. Citations and Explanations: Please See Continuation Sheet

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No. PCT/US03/08597

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient.)

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

V.1. Reasoned Statements:

The opinion as to Novelty was positive (Yes)with respect to claims 7, 8, 10-14, 20, 21, 23-25, 27, 34, 35, 37-41, 47, 48, 50-52 and 54

The opinion as to Novelty was negative (No) with respect to claims 1-6, 9, 15-19, 22, 26, 28-33, 36, 42-46, 49 and 53

The opinion as to Inventive Step was positive (Yes) with respect to claims 7, 20, 27, 34, 47 and 54

The opinion as to Inventive Step was negative(NO) with respect to claims 1-6, 8-19, 21-26, 28-33, 35-46 and 48-53

The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-54

The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

V. 2. Citations and Explanations:

Claims 1 - 6, 9, 15 - 19, 22, 26, 28 - 33, 36, 42 - 46, 49 and 53 lack novelty under PCT Article 33(2) as being anticipated by Shojima.

Regarding claim 1, Shojima discloses transmitting media content from a server to a client terminal (see fig 19) noting that the program data is for multi-channel television or a television meeting (see col 11 lines 12 - 25) thus Shojima discloses the broadly claimed "subscriber television system" limitation. Shojima further discloses a storage device comprising a plurality of tuner buffers (244, 245, 246, 247 in fig 14) for storing the media content. Shojima also discloses a composite data buffer part 243 which is associated with the plurality of buffers (see fig 14) and thus discloses the claimed "composite buffer file".

Regarding claim 2, Shojima discloses displaying the media content accessed from the plurality of buffers and from the composite buffer part (see col 9 lines 21 - 43).

Regarding claim 3, Shojima discloses a user can select dictionary data, encyclopedia data or program data table from a multichannel television and thus discloses the claimed limitation as dictionary data, encyclopedia data or television program data tables inherently have "content instance titles" (see col 11 lines 13 - 25).

Regarding claims 4 and 5, Shojima discloses associating the plurality of tuner buffer including buffer files with a composite buffer file as discussed above (see fig 14). It is noted that since the media can be read and sent to the composite data buffer part only after the media is loaded in the data buffer parts, a minimum amount of data, or a threshold of data, would have to be loaded before it could be read and sent to the composite buffer files, thus Shojima discloses the claimed threshold including "storage device disk space consumed for the download of the media content".

Regarding claim 6, Shojima discloses associating each of the tuner buffers with corresponding media data. It is noted that the media data stored in the buffer meets the broadly claimed "tuner buffer file" (see col 11 lines 13 - 25).

Regarding claim 9, Shojima discloses the claimed using the plurality of tuner buffers for a plurality of tuners (see col 9 lines 5 - 10 and fig. 14).

Regarding claim 15, Shojima discloses storing media content in the tuner buffers received from a external media source and associating all, which includes the claimed "one", of the tuner buffers with the composite buffer file (see col 9 lines 5 - 44, col 11 lines 12 - 25).

Regarding claims 16, 17, 18, 19, 22 and 26 are met by the discussions above.

Regarding claim 28, claims 28 recites the same limitations as discussed above and is therefore rejected based on the same

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International application No. PCT/US03/08597

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient.)

reasoning discussed above. Claim 28 further recites a memory with logic and a processor configured with the logic to associate the plurality of tuner buffers with a composite buffer file which is inherently included in the system since memory logic and processor would be required to search and read data extracted from the data buffers (244, 245, 246, 247) for processing by search part 241 and data reading part 242 to send data to the composite data buffer part 243 (see fig 14).

Claims 29, 30, 31, 32, 33, 36, 42, 43, 44, 45, 46, 49 and 53 are met by the discussions above, noting that a processor configured with logic is inherently included and required to perform the claimed functions.

Claims 8, 10 - 14, 21, 23 - 25, 35, 37 - 41, 48 and 50 - 52 lack an inventive step under PCT Article 33(3) as being obvious over Shojima. Although Shojima fails to disclose the claimed limitation, it would be obvious to modify Shojima to include the claimed limitations.

Regarding claims 8, 21, 35 and 48, Shojima fails to disclose the claimed step of dissociating at least a portion of the tuner buffer file from the tuner buffer after an event corresponding to at least one of a first display channel change, a second display channel change, and a substantial consumption of tuner buffer capacity.

The Examiner takes Official Notice that it would have been well known to dissociate a buffer file from a corresponding buffer after a substantial consumption of buffer capacity to prevent buffer overflow. Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made to modify Shojima to include the claimed limitation to prevent buffer overflow.

Regarding claims 10, 11, 37 and 38, Shojima fails to disclose associating the tuner buffer file with the tuner buffers after a threshold is substantially attained, wherein the threshold includes at least one of a viewing time, storage device disk space consumed for the download of the media content, and priority as determined by the user.

The Examiner takes Official Notice that associating a file with a buffer only after a minimum threshold of a buffer capacity is reached prevents underflow of the buffer. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Shojima to include the claimed limitation to prevent underflow of the data buffer part.

Regarding claims 12, 23, 39 and 50 Shojima fails to disclose the claimed step of providing a user with a user interface screen configured to enable the user to select from which of the buffer files to view the media content.

The Examiner takes Official Notice it would have been well known providing a user interface, i.e. a menu for selecting files would have been provided a more a more organized user friendly means for selecting data. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Shojima to include the claimed limitation to provide a more organized user friendly means for selecting buffer file data.

Regarding claims 13, 14, 24, 25, 40, 41, 51 and 52 although Shojima discloses transmitting program table data for a multichannel television, Shojima fails to disclose the claimed step of configuring the composite buffer file to exclude the media content based on at least one of media content instance rating, media content instance content, existence in a blocked display channel list, and existence in a locked display channel list and reading interactive program guide data to determine the rating and content of the media content.

The Examiner takes Official Notice that it would have been well known in the art to scan EPG data for content ratings and to exclude the media content based on the content rating to provide appropriate programming for minors like young children. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Shojima to include the claimed limitation to provide appropriate programming for minors like young children.

US 6,330,252 A (SHOJIMA) 11 December 2001, see whole document